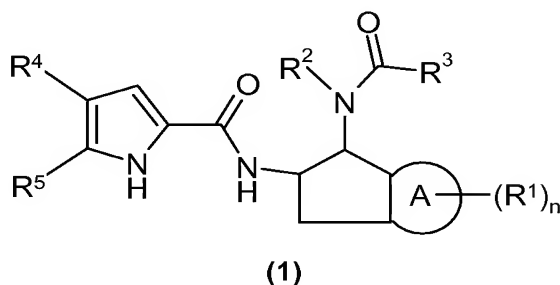


### Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims:

1. (currently amended) A compound of formula (1):



wherein:

$R^4$  and  $R^5$  together are either  $-S-C(R^6)=C(R^7)-$  or  $-C(R^7)=C(R^6)-S-$  ;

$R^6$  and  $R^7$  are independently selected from hydrogen, halo, nitro, cyano, hydroxy, fluoromethyl, difluoromethyl, trifluoromethyl, trifluoromethoxy, carboxy, carbamoyl, (1-4C)alkyl, (2-4C)alkenyl, (2-4C)alkynyl, (1-4C)alkoxy and (1-4C)alkanoyl;

A is phenylene or heteroarylene;

n is 0, 1 or 2;

$R^1$  is independently selected from halo, nitro, cyano, hydroxy, carboxy, carbamoyl, *N*-(1-4C)alkylcarbamoyl, *N,N*-((1-4C)alkyl)<sub>2</sub>carbamoyl, sulphamoyl, *N*-(1-4C)alkylsulphamoyl, *N,N*-((1-4C)alkyl)<sub>2</sub>sulphamoyl,  $-S(O)_b(1-4C)alkyl$  (wherein b is 0, 1, or 2),  $-OS(O)_2(1-4C)alkyl$ , (1-4C)alkyl, (2-4C)alkenyl, (2-4C)alkynyl, (1-4C)alkoxy, (1-4C)alkanoyl, (1-4C)alkanoyloxy, hydroxy(1-4C)alkyl, fluoromethyl, difluoromethyl, trifluoromethyl, trifluoromethoxy and  $-NHSO_2(1-4C)alkyl$ ;

or, when n is 2, the two  $R^1$  groups, together with the carbon atoms of A to which they are attached, may form a 4 to 7 membered saturated ring, ~~optionally containing 1 or 2 heteroatoms independently selected from O, S and N, and optionally being substituted by one or two methyl groups;~~

one of  $R^2$  and  $R^3$  is selected from  $R_{Na}$ , and the other is selected from  $R_{Nb}$ ;

$R_{Na}$ : (1-3C)alkyl, halo(1-3C)alkyl, dihalo(1-3)alkyl, trifluoromethyl, hydroxy(1-3C)alkyl, dihydroxy(2-3C)alkyl, cyano(1-3C)alkyl (optionally substituted on alkyl with hydroxy), methoxymethyl, ethoxymethyl, methoxyethyl, methoxymethoxymethyl, dimethoxyethyl, (hydroxy)(methoxy)ethyl, 5- and 6-membered acetals and mono- and di-methyl derivatives

thereof, (amino)(hydroxy)(2-3C)alkyl, (aminocarbonyl)(hydroxy)(2-3C)alkyl, (methylaminocarbonyl)(hydroxy)(2-3C)alkyl, (dimethylaminocarbonyl)(hydroxy)(2-3C)alkyl, (methylcarbonylamino)(hydroxy)(2-3C)alkyl, (methylS(O)<sub>p</sub>)(hydroxy)(2-3C)alkyl (wherein p is 0, 1 or 2);

R<sub>Nb</sub>: (1-4C)alkyl, halo(1-4C)alkyl, dihalo(1-4C)alkyl, trifluoromethyl, hydroxy(1-4C)alkyl, dihydroxy(2-4C)alkyl, trihydroxy(3-4C)alkyl, cyano(1-4C)alkyl (optionally substituted on alkyl with hydroxy), (1-4C)alkoxy(1-4C)alkyl, (1-4C)alkoxy(1-4C)alkoxy(1-4C)alkyl, di[(1-4C)alkoxy](2-4C)alkyl, (hydroxy)[(1-4C)alkoxy](2-4C)alkyl, 5- and 6-membered acetals and mono- and di-methyl derivatives thereof, (amino)(hydroxy)(2-4C)alkyl, (aminocarbonyl)(hydroxy)(2-4C)alkyl, ((1-4C)alkylaminocarbonyl)(hydroxy)(2-4C)alkyl, (di(1-4C)alkylaminocarbonyl)(hydroxy)(2-4C)alkyl, ((1-4C)alkylcarbonylamino)(hydroxy)(2-4C)alkyl, ((1-4C)alkylS(O)<sub>p</sub>)(hydroxy)(2-4C)alkyl (wherein p is 0, 1 or 2);

wherein any alkyl or alkoxy group within any group in R<sub>Na</sub> and R<sub>Nb</sub> may also optionally be substituted on an available carbon atom with a hydroxy group (provided that said carbon atom is not already substituted by a group linked by a heteroatom);

provided that if R<sup>2</sup> is (1-3C)alkyl or (1-4C)alkyl then R<sup>3</sup> is not (1-4C)alkyl or (1-3C)alkyl; or a pharmaceutically acceptable salt or pro-drug thereof.

2. (original) A compound of formula (1) as claimed in Claim 1, or a pharmaceutically acceptable salt or pro-drug thereof, wherein R<sup>2</sup> is selected from R<sub>Na</sub>, and R<sup>3</sup> is selected from R<sub>Nb</sub>, wherein R<sub>Na</sub> and R<sub>Nb</sub> are as defined in Claim 1.

3. (cancelled)

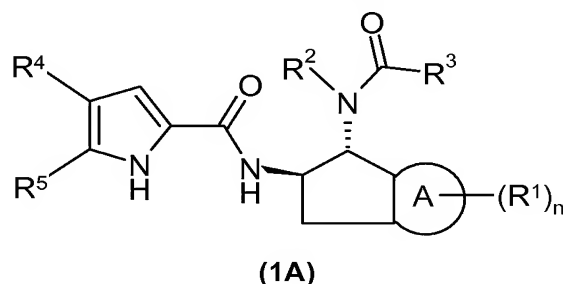
4. (previously presented) A compound of formula (1) as claimed in Claim 1, or a pharmaceutically acceptable salt or pro-drug thereof, wherein n is 0.

5. (previously presented) A compound of formula (1) as claimed in Claim 1, or a pharmaceutically acceptable salt or pro-drug thereof, wherein R<sup>6</sup> and R<sup>7</sup> are independently selected from hydrogen and halo.

6. (previously presented) A compound of formula (1) as claimed in Claim 1, or a pharmaceutically acceptable salt or pro-drug thereof, wherein  $R^6$  and  $R^7$  are independently selected from hydrogen and chloro.

7. (previously presented) A compound of formula (1) as claimed in Claim 1, or a pharmaceutically acceptable salt or pro-drug thereof, wherein  $R_{Na}$  is selected from (1-4C)alkyl, hydroxy(1-4C)alkyl, and (1-4C)alkoxy(1-4C)alkyl.

8. (currently amended) A compound of formula (1) as claimed in Claim 1, or a pharmaceutically acceptable salt or pro-drug thereof, which is a compound of formula (1A):



wherein  $R^1$  to  $R^7$ , A and n are as defined in claim 1.

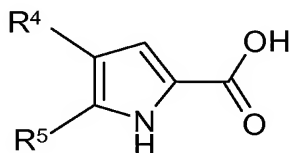
9. (previously presented) A pro-drug of a compound of formula (1) as claimed in Claim 1, which pro-drug is an in-vivo hydrolysable ester.

10. (original) A pharmaceutical composition which comprises a compound of the formula (1), or a pharmaceutically acceptable salt or in-vivo hydrolysable ester thereof, as claimed in claim 1 in association with a pharmaceutically-acceptable diluent or carrier.

11-15. (cancelled)

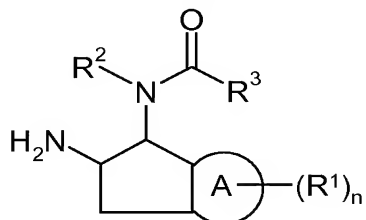
16. (withdrawn) A process for the preparation of a compound of formula (1) as claimed in claim 1, which process comprises:

reacting an acid of the formula (2):



(2)

or an activated derivative thereof; with an amine of formula (3):



(3)

and thereafter if necessary:

- i) converting a compound of the formula (1) into another compound of the formula (1);
- ii) removing any protecting groups;
- iii) forming a pharmaceutically acceptable salt or *in vivo* hydrolysable ester.

17. (previously presented) A compound of formula (1), or a pharmaceutically acceptable salt or pro-drug thereof, selected from:

2-chloro-*N*-{(1*R*,2*R*)-1-[(methoxyacetyl)(methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-6*H*-thieno[2,3-*b*]pyrrole-5-carboxamide;

2-chloro-*N*-{(1*R*,2*R*)-1-[[3-hydroxy-2-(hydroxymethyl)propanoyl](methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-6*H*-thieno[2,3-*b*]pyrrole-5-carboxamide;

ethyl 3-[(1*R*,2*R*)-2-[(2-chloro-6*H*-thieno[2,3-*b*]pyrrol-5-yl)carbonyl]amino]-2,3-dihydro-1*H*-inden-1-yl(methyl)amino]-3-oxopropanoate;

2-[(1*R*,2*R*)-2-[[2-chloro-6*H*-thieno[2,3-*b*]pyrrol-5-yl)carbonyl]amino]-2,3-dihydro-1*H*-inden-1-yl(methyl)amino]-2-oxoethyl acetate;

2-chloro-*N*-{(1*R*,2*R*)-1-[glycoloyl(methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-6*H*-thieno[2,3-*b*]pyrrole-5-carboxamide;

2-chloro-*N*-{(1*R*,2*R*)-1-[glyceroyl(methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-6*H*-thieno[2,3-*b*]pyrrole-5-carboxamide;

2-chloro-*N*-{(1*R*,2*R*)-1-[(2*S*)-2,3-dihydroxypropanoyl](methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-6*H*-thieno[2,3-*b*]pyrrole-5-carboxamide;

2-chloro-*N*-{(1*R*,2*R*)-1-[(2*R*)-2,3-dihydroxypropanoyl](methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-6*H*-thieno[2,3-*b*]pyrrole-5-carboxamide;

2-chloro-*N*-{(1*R*,2*R*)-1-[(3-hydroxypropanoyl)(methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-6*H*-thieno[2,3-*b*]pyrrole-5-carboxamide;

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2-chloro-*N*-{(1*R*,2*R*)-1-[glycoloyl(2-hydroxyethyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-6*H*-thieno[2,3-*b*]pyrrole-5-carboxamide;

2-chloro-*N*-{(1*R*,2*R*)-1-[[*(2R)*-2-hydroxypropanoyl](methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-6*H*-thieno[2,3-*b*]pyrrole-5-carboxamide;

2-chloro-*N*-{(1*R*,2*R*)-1-[[*(2S)*-2-hydroxypropanoyl](methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-6*H*-thieno[2,3-*b*]pyrrole-5-carboxamide;

2,3-dichloro-*N*-{(1*R*,2*R*)-1-[[*(2R)*-2,3-dihydroxypropanoyl](methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-4*H*-thieno[3,2-*b*]pyrrole-5-carboxamide

2,3-dichloro-*N*-{(1*R*,2*R*)-1-[[*(2S)*-2,3-dihydroxypropanoyl](methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-4*H*-thieno[3,2-*b*]pyrrole-5-carboxamide;

(2*S*)-*N*<sup>1</sup>-{(1*R*,2*R*)-2-[(2-chloro-6*H*-thieno[2,3-*b*]pyrrol-5-yl)carbonyl]amino}-2,3-dihydro-1*H*-inden-1-yl)-2-hydroxy-*N*<sup>1</sup>-methylsuccinamide;

(2*S*)-*N*<sup>1</sup>-{(1*R*,2*R*)-2-[(2,3-dichloro-4*H*-thieno[3,2-*b*]pyrrol-5-yl)carbonyl]amino}-2,3-dihydro-1*H*-inden-1-yl)-2-hydroxy-*N*<sup>1</sup>-methylsuccinamide;

2,3-dichloro-*N*-{(1*R*,2*R*)-1-[[*(2S)*-2-hydroxybutanoyl](methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-4*H*-thieno[3,2-*b*]pyrrole-5-carboxamide;

2,3-dichloro-*N*-{(1*R*,2*R*)-1-[[*(2S)*-2-hydroxy-3-methylbutanoyl](methyl) amino]-2,3-dihydro-1*H*-inden-2-yl}-4*H*-thieno[3,2-*b*]pyrrole-5-carboxamide;

2,3-dichloro-*N*-{(1*R*,2*R*)-1-[[*(2S)*-4-(1,3-dioxo-1,3-dihydro-2*H*-isoindol-2-yl)-2-hydroxybutanoyl](methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-4*H*-thieno[3,2-*b*]pyrrole-5-carboxamide;

2,3-dichloro-*N*-{(1*R*,2*R*)-1-[[*(2R)*-2-hydroxy-3-(methylthio)propanoyl](methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-4*H*-thieno[3,2-*b*]pyrrole-5-carboxamide;

*tert*-butyl {(2*S*)-3-[(1*R*,2*R*)-2-[(2,3-dichloro-4*H*-thieno[3,2-*b*]pyrrol-5-yl)carbonyl]amino}-2,3-dihydro-1*H*-inden-1-yl)(methyl)amino]-2-hydroxy-3-oxopropyl} carbamate;

2,3-dichloro-*N*-{(1*R*,2*R*)-1-[[*(2S)*-3-cyano-2-hydroxypropanoyl](methyl) amino]-2,3-dihydro-1*H*-inden-2-yl}-4*H*-thieno[3,2-*b*]pyrrole-5-carboxamide;

*N*-{(1*R*,2*R*)-1-[(*N*-acetylseryl)(methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-2-chloro-6*H*-thieno[2,3-*b*]pyrrole-5-carboxamide;

*N*-{(1*R*,2*R*)-1-[(*N*-acetylseryl)(methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-2,3-dichloro-4*H*-thieno[3,2-*b*]pyrrole-5-carboxamide;

2,3-dichloro-*N*-{(1*R*,2*R*)-1-[methyl(*L*-seryl)amino]-2,3-dihydro-1*H*-inden-2-yl}-4*H*-thieno[3,2-*b*]pyrrole-5-carboxamide hydrochloride;

2-chloro-*N*-{(1*R*,2*R*)-1-[methyl(*L*-seryl)amino]-2,3-dihydro-1*H*-inden-2-yl}-6*H*-thieno[2,3-*b*]pyrrole-5-carboxamide hydrochloride;

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(2S)-N<sup>1</sup>-((1R,2R)-2-[[[(2-chloro-6H-thieno[2,3-b]pyrrol-5-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl)-2-hydroxy-N<sup>1</sup>-methylpentanediamide;  
(2S)-N<sup>1</sup>-((1R,2R)-2-[[[(2,3-dichloro-4H-thieno[3,2-b]pyrrol-5-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl)-2-hydroxy-N<sup>1</sup>-methylpentanediamide;  
2-chloro-N-((1R,2R)-1-[[[(2S)-2-hydroxy-3-methoxypropanoyl](methyl) amino]-2,3-dihydro-1H-inden-2-yl]-6H-thieno[2,3-b]pyrrole-5-carboxamide;  
2,3-dichloro-N-((1R,2R)-1-[[[(2S)-2-hydroxy-3-methoxypropanoyl](methyl) amino]-2,3-dihydro-1H-inden-2-yl]-4H-thieno[3,2-b]pyrrole-5-carboxamide;  
2,3-dichloro-N-((1R,2R)-1-[[[(2R)-2-hydroxy-3-(methylsulfonyl)propanoyl](methyl) amino]-2,3-dihydro-1H-inden-2-yl]-4H-thieno[3,2-b]pyrrole-5-carboxamide;  
N-((1R,2R)-1-[[[(2S)-3-amino-2-hydroxypropanoyl](methyl) amino]-2,3-dihydro-1H-inden-2-yl]-2,3-dichloro-4H-thieno[3,2-b]pyrrole-5-carboxamide hydrochloride;  
(2S)-N<sup>1</sup>-((1R,2R)-2-[[[(2,3-dichloro-4H-thieno[3,2-b]pyrrol-5-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl)-2-hydroxy-N<sup>1</sup>,N<sup>4</sup>-dimethylsuccinamide;  
(2S)-N<sup>1</sup>-((1R,2R)-2-[[[(2,3-dichloro-4H-thieno[3,2-b]pyrrol-5-yl)carbonyl] amino]-2,3-dihydro-1H-inden-1-yl)-2-hydroxy-N<sup>1</sup>,N<sup>4</sup>,N<sup>4</sup>-trimethylsuccinamide;  
2-chloro-N-((1R,2R)-1-[glyceroyl(2-hydroxyethyl) amino]-2,3-dihydro-1H-inden-2-yl)-6H-thieno[2,3-b]pyrrole-5-carboxamide;  
2-chloro-N-((1R,2R)-1-[[[(2R)-2,3-dihydroxypropanoyl](2-hydroxyethyl) amino]-2,3-dihydro-1H-inden-2-yl]-6H-thieno[2,3-b]pyrrole-5-carboxamide;  
2-chloro-N-((1R,2R)-1-[[[(2S)-2,3-dihydroxypropanoyl](2-hydroxyethyl) amino]-2,3-dihydro-1H-inden-2-yl]-6H-thieno[2,3-b]pyrrole-5-carboxamide.

18. (withdrawn) A method of producing a glycogen phosphorylase inhibitory effect in a warm-blooded animal, such as man, in need of such treatment which comprises administering to said animal an effective amount of a compound of formula (1) as claimed in claim 1.

19. (withdrawn) A method of treating type 2 diabetes, insulin resistance, syndrome X, hyperinsulinaemia, hyperglucagonaemia, cardiac ischaemia or obesity in a warm-blooded animal, such as man, in need of such treatment which comprises administering to said animal an effective amount of a compound of formula (1) as claimed in claim 1.

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20. (withdrawn) A method of treating type 2 diabetes in a warm-blooded animal, such as man, in need of such treatment which comprises administering to said animal an effective amount of a compound of formula (1) as claimed in claim 1.